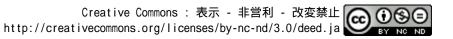
子宮頚癌の細胞分化にともなうヒトパピローマウイ ルス癌遺伝子発現機構の解明

著者	京 哲
著者別表示	Kyo Satoru
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1998 Fiscal Year Final Research Report Summary

Mechanisms of human papillomavirus E6/E7 expression during cellular differentialtion of cervical cancer

Research Project Project/Area Number 08671876 **Research Category** Grant-in-Aid for Scientific Research (C) **Allocation Type** Single-year Grants Section 一般 **Research Field** Obstetrics and gynecology **Research Institution** Kanazawa University **Principal Investigator** KYO Satoru University Hospital, Kanazawa University Assistant Professor, 医学部・附属病院, 助手 (50272969) Co-Investigator(Kenkyū-buntansha) INOUE Masaki School of Medicine, Professor, 医学部, 教授 (10127186) **Project Period (FY)** 1996 - 1998

Keywords

Research Abstract

To clarify the molecular mechanisms through which human papillomavirus E6/E7 expression is activated during the process of cellular differentiation in stratified epithelial cells of uterine cervix, we identified core enhancer of upstream regulatory region of HPV3 1 b E6/E7 genes using transient expression assays. DNA foot print analyses and gel shift analyses identified sevral nuclear factors which bind core enhancer and regulate transcription of E6/E7 genes. In particular, Ap1 was found to be the most potent transactivator. In situ hybridization analyses revealed that E6/E7 mRNA was expressed mainly in the undifferentiated basal layers of stratified epithelial cells in uterine cervix, which was co-localized with AP1 expression determined by immunohistochemical analyses. These findings suggest that AP1 is the critical determinant of HPV oncogene expression. In addition, we found that cellular factor YY1 cooperates with API to achieve full activation of HPV oncogene expression. These results may provide insight into molecular targets for gene therapies against cervical cancer induced by HPV infection.

Research Products (4 results)

		All O	ther
	All	Publications (4 resu	ults)
[Publications] Satoru Kyo,David Masaki Inoue.et al: "Expression of AP1 during cellnlan differentiation determines human par expression in stratified epithelal all" Journal of General Virology. 78. 401-411 (1997)	villon	narims E6/E7	~
[Publications] Tan Kanaya, Satoru Kyo Laimins A reimonis: "The 5' region of the human porpilloma Virus type 31 upstream an enbehave which Angments viral early expression" Virology. 237. 159-169 (1997)	ignla	atory region acts as	~
[Publications] "Expression of API during cellular differentiation determines human papillomavirus E6/E7 expression in stratifion of General Virology. 78. 401-411 (1997)	ed e	pithelial cells" Jouenal	~
[Publications] "The 5'Region of the Human Papillomavirus Type 31 Upstream Regulatory Region Acts as an Enhancer which Expression Thrugh the Action of YY1" Virology. 237. 159-169 (1997)	۹ugr	nents Viral Early	~

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